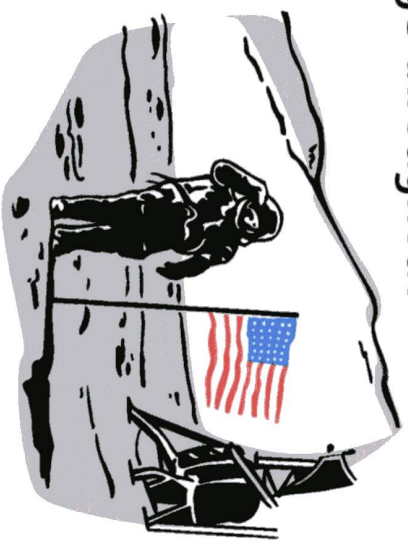


Giant Jumps

How does the force of gravity change throughout the Solar System?

You will need for this experiment:

- chalk
- partner
- measuring tape



1) Work outdoors or in a large indoor space

2) Draw a straight line with the chalk on the ground.

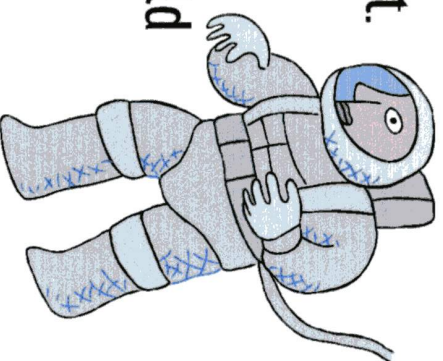
This is your starting line. Stand at the starting line and get ready to jump. Crouch down and swing your arms back, then jump forward as far as you can.

3) When you land, stand still. Have your partner

measure the distance from the starting line to the heel of one foot.

This is the distance you jumped.

4) Multiply the distance you jumped by 6. This is the distance you would be able to jump on the Moon!

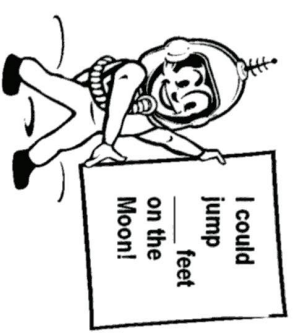


What just happened?

How far did you jump? _____

What force pulled you back to Earth when you jumped?

How far would you be able to jump on the Moon? _____



What might be the reason for the fact that you could jump farther on the Moon than on Earth?
